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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,088	02/27/2004	Chin-Hung Cheng	MR929-965	4288
4586	7590	01/25/2006	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			MURALIDAR, RICHARD V	
			ART UNIT	PAPER NUMBER
			2838	

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

H.12

Office Action Summary	Application No.	Applicant(s)	
	10/787,088	CHENG, CHIN-HUNG	
	Examiner	Art Unit	
	Richard V. Muralidar	2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103[a] which forms the basis for all obviousness rejections set forth in this Office action:

[a] A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103[a] as being unpatentable over Martin Lee [6483273] in view of Victor Lee [5844472].

With Respect to Claim 1, Martin Lee discloses a dual connection mobile phone charger adapted for use with a cigarette lighter socket [col. 5 lines 10-14] of a vehicle and a mains electrical outlet in a building [col. 5 lines 49-57], wherein the charger comprises: a housing [Fig. 6 housing 32] for connection with the main electrical outlet [Fig. 6 ac prongs 36] and a plug [Fig. 4 electrical pin 76] removably received in the housing for electrical connection with the cigarette lighter socket, the housing having: a space defined in the housing [Fig. 4 charging port 34] to snugly yet securely receive therein the cigarette lighter, a positioning cutout [Fig. 6, 8 elongated slot 78] defined in a distal end of the housing and having first contacting plates [Fig. 8 contact post 90] formed on a bottom face defining the positioning cutout; a printed circuit board [Fig. 13; col. 5 lines 49-57] securely received in a bottom face defining the space; and second contacting plates [Fig. 6 prong 36] extending out of a side wall of the housing [Fig. 6 housing 32] and engaging with the printed circuit board for connection with a wall outlet; the plug [Fig. 4 electrical pin 76] having: a contacting point [the tip of electrical pin 76]

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formed on a first distal end of the plug for connection with a power source [Fig. 8 supplied by positively charged plate 88]; a locating cutout [Fig. 8 opening 74] oppositely defined relative to the contacting point; and third contacting plates [Fig. 8 contact post 90] formed on a bottom face defining the locating cutout [contact post 90 is attached at the base of the structure shown in Fig. 8 and stems from the bottom of elongated slot 78]. Martin Lee does not teach the use of a block to connect the charging wire to the cigarette lighter adapter/charger, or the use of a positioning cutout.

Victor Lee discloses a charging wire [Fig. 1 charging wire 58] for charging a mobile phone has a block [Fig. 1 docking mechanism 49] formed on a free end of the charging wire to respectively correspond to and slidably received in the positioning cutout [Fig. 2 output jack 54] and the locating cutout [Fig. 2 input jack 52] and having contacting plates formed on a side face of the block to correspond to the first contacting plates [Fig. 2 contact 81] and the third contacting plates [Fig. 2 ground contact 90] such that either the plug or the housing is able to charge the mobile phone [Fig. 1 housing 34 charges the mobile phone via rechargeable module 22] and afterward, the plug is able to be received in the space [Fig. 2 charging port 36 or port 38] for storage.

Martin Lee and Victor Lee are analogous cigarette-adapter charging means for cell-phones. At the time of the invention, it would have been obvious to one skilled in the art to modify Martin Lee with a block type connector for the purpose of strengthening the connection point between the charging wire and the point of attachment. Many current methods involve the use of fragile clips, or plugs that break or retract easily when worn.

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The positioning cutout offers an added advantage to rotatably stabilize the movement of the adapter once inserted into the cigarette lighter charging port.

With respect to Claim 2, Victor Lee discloses that an arcuate projection is formed on a bottom face defining the space and an arcuate recess is defined in a bottom face of the cigarette lighter to correspond to and receive therein the arcuate projection when the plug is received in the space. Examiner notes that this description is referring to the method by which a cigarette lighter adapter is frictionally retained within the cigarette lighter opening. This is normally accomplished by a taper on the shank of the cigarette lighter adapter [Fig. 1 tapered shank 29], in combination with the ground contact projecting outwards [Fig. 1 contact 90] and sliding into a formed groove of the cigarette lighter opening. Both shank 29 and contact 90 can be considered arcuate projections, and the arcuate recess would be the corresponding inside taper of the cigarette lighter opening to frictionally accept and hold the cigarette lighter adapter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard V. Muralidar whose telephone number is 571-272-8933. The examiner can normally be reached on Monday to Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on Monday to Friday 8-5. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'David Gray', with a long horizontal line extending to the right.

David Gray
Primary Examiner

RVM
01/20/2006